

Anti-CD79a [HM57] Standard Size Ab01331-10.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors. Developed in partnership with Ximbio (www.ximbio.com).

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Fc Silent™, Kappa

Clone Number: HM57

Alternative Name(s) of Target: MB-1; B-cell antigen receptor complex-associated protein alpha chain; Ig-alpha; MB-1 membrane glycoprotein; Membrane-bound immunoglobulin-associated protein; Surface IgM-associated protein; MB-1 membrane glycoprotein

UniProt Accession Number of Target Protein: P11912

Published Application(s): IP, IF, IHC

Published Species Reactivity: Chicken, Cow, Guinea Pig, Horse, Opossum, Pig, Primate, Rabbit, Rat, Human, Mouse

Immunogen: This antibody was raised by immunising BALB/c mice with a synthetic peptide G-T-Y-Q-D-V-G-S-L-N-I-A-D-V-Q, representing amino acids 202-216 of the human mb-1 protein and conjugated to thyroglobulin.

Specificity: This antibody recognises CD79a which is involved in initiation of the signal transduction cascade activated by binding of antigen to the B-cell receptor. CD79a is used as an adjunct to CD20 for detecting normal and neoplastic B cells in tissue sections.

Application Notes: CD79a is strongly expressed in various B-cell-derived conditions and thus this antibody is useful during identification and investigation of such diseases (via IF, IHC) (Mason et al., 1991). One group utilised it for immunofluorescent labelling of CD79a containing cells in bone marrow samples of pre-B lymphocyte acute leukemia patients (Mason et al., 1991). HM57 antibody can also be used for IP as it was very efficient in immunoprecipitating CD79a from NP-40 cells lysates (Mason et al., 1995). Finally, this antibody has been widely applied in veterinary research and proved successful in recognising CD79a in various species, from chicken to dog (Doring et al., 2018).

Antibody First Published in: van Noesel et al. The membrane IgM-associated heterodimer on human B cells is a newly defined B cell antigen that contains the protein product of the mb-1 gene. J Immunol. 1991 Jun 1;146(11):3881-8.

[PMID:2033258](#)

Note on publication: This article describes generation and application of HM57 antibody.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.